

itenstation at I another x-axis (1,0,0) und a uniturn scaling at 2 0 to degree ruting along x, tourlim at (0,0,00), 0 11. 0 5 culy of (1112) why 2 and (anne be obtand), bother none connecte o 12. it the righ of a matrix matches on Northy matrix $V = \frac{1}{2}N = \frac{1}{2}\left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2}\right) = \frac{1}{2}\left(\frac{1}{2}\right)$ 13. = (x (vs + - ysm+) V·W = (x war-yma). (x) = X (xw 6-y sno) + y(xsmuty coop) = x2 ws 6- x 55mb + 5x5mb + 52mb = (N) (X2122) Ungle = |ullv/cust = Jx2+02 (Jx104-75:042+ [x50x 1500x)2 (156) - (Jx21, 2) (1x21,2) (vs 0 - (x2+y2) 115 0 V.v= unde J.

R=(sn+ cos+) RT-(cos+ smor) $= ((\omega^2(\theta)) + s_1 s_2^2(\theta)) + (\omega^2(\theta))$ TO propt have they are not uch an injury this = 1 being they are motionly orthogonal W.W = (000) = I

RT-RT N= Rx X med y mys he sum lost 9999 16. Lis cx Hoyman sor for my velos

x ml s

[x] \(\frac{1}{2} \cdot \ 1 1 IX = IXTRTRXI 1 1 0 1- 19-10 = |XT-X | = 101=1x) So x and y has the same length 0 NT R=I y= 0x v= h V. Q Risorthyma, RT-R-Q = 12 kn: x= (Rn) (Rx) = nt RT Rx RT: RT
= ut RT 5 So ut RT = una N. X = N.D x.y = |x | 1 | y | 1 w & From 16 - 1x | = | y | 16. x 0 = 1/41.14 (s & and 1/1.14) = c.x So by = x ? ye - not-led verbun So the under 13 preserved